

METHOD STATEMENT

Sika[®] BituSeal T-130 SG for Concrete Roof

SIKA LIMITED (VIETNAM)

BUILDING TRUST



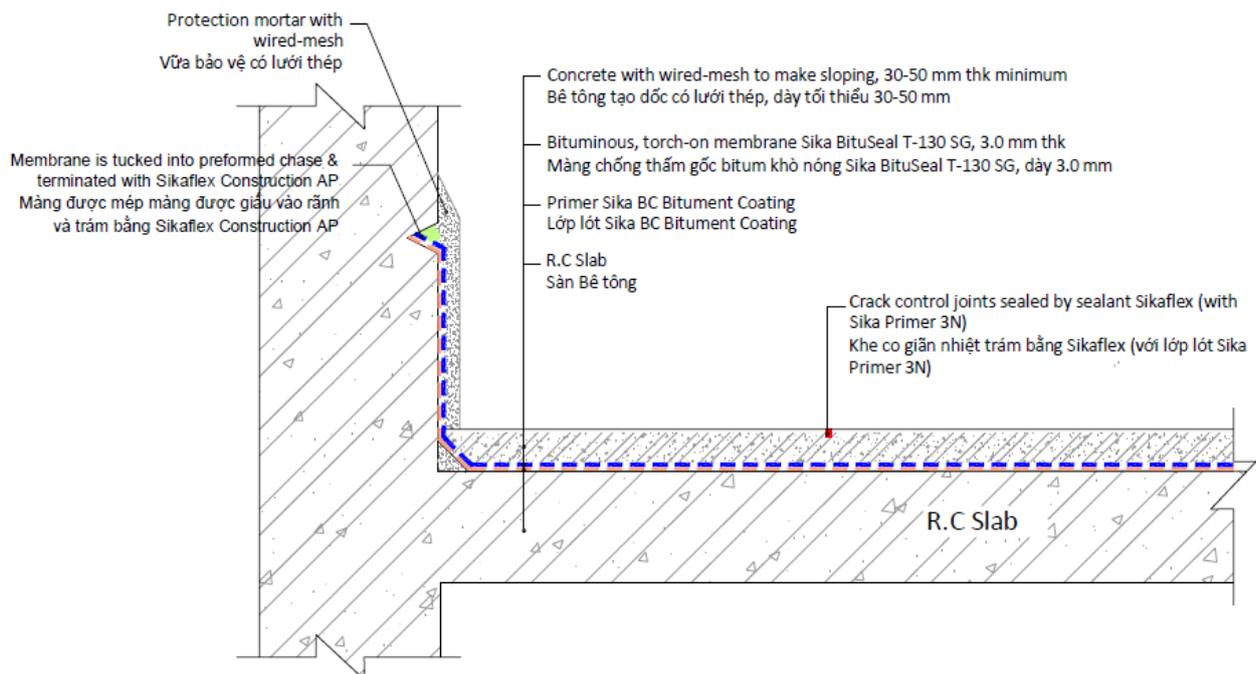
1 SYSTEM DESCRIPTION

Installation of Sika® BituSeal T-130 SG bituminous waterproofing membranes, torch-on sheet. This is modified bitumen, reinforced with polyester non-woven fabric. It can be exposed or under protective layer

2 CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Resistant to weathering
- Good tensile strength and elongation
- High resistance to water vapour (non-vapour permeable)
- Good dimensional stability
- Flexible at low temperatures
- Easy to install with the torch-on method
- Not resistant to root penetration
- Suitable as top layer for multi layer installations
- Good resistance to mechanical impact
- Must be installed on suitable primed, uniform and smooth substrates such as concrete and brickwork

3 TYPICAL SYSTEM BUILD-UP



Typical System Build-up

4 APPLICATION

4.1 SURFACE PREPARATION

- Ensure that the surfaces are clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil, greases, etc.
- Remove structurally unsound layers and surface contaminants by abrasive blast tracking or grinding.
- Clean substrates heavily impregnated with oil by torching or suitable solvent cleaning methods.
- Use a suitable cement-based patching mortar for re-profiling defects on horizontal surfaces. The patching mortar should depend on the scope, particular conditions and requirements of the work.
- Form chamfers (or angle fillets if required) at all corners to prevent excessive bending of the membrane.

4.2 PRIMING

- After having prepared and cleaned the surfaces as described above, for fully bonded applications, apply a coat of Sika BC Bitumen Coating, a bituminous primer, over the concrete substrate.
- Allow the primer to dry for at least 4-6 hours (it is considered dry, or tack free, when rubbing with a wet finger does not produce a stain).
- Do not apply the primer in wet weather or under direct sunlight.
- Consumption: 0.2 kg/m² (added with water; ratio 1:1)

4.3 APPLICATION (FULLY BONDED)

The membranes get fully bonded to the substrate by heating them with a gas torch. On vertical surfaces, or very steep ones, in order to avoid any possible detachment due to the weight of the membrane, it should be solidly fixed to the support with nails or tucked into performance chase and sealed by a PU sealant Sikaflex Construction AP. On horizontal or near horizontal surfaces, full bonding is normally used for the external membrane, applied over one partially bonded.

4.4 WELDING METHOD

- Place the Sika® Bituseal T-130 SG membrane onto the primed concrete surface.
- Do not remove the polyethylene backing sheet. It will melt away under the heat of the flame.
- Ensure that the torchable side of the membrane is facing down.
- Torch the underside of the membrane until the plastic backing sheet has melted. Ensure that the flame heat is applied evenly and within the correct temperature range (a bead of bitumen must be visible on the underside of the membrane). Then press firmly the membrane onto the substrate.
- Ensure that the side overlaps are ≥ 100 mm and end overlaps ≥ 150 mm.
- Any air pocket shall be cut out and repaired by patching another piece of Sika® Bituseal T-130 SG membrane.
- Extend Sika® Bituseal T-130 SG membrane up to the parapet wall at least 300 mm high.
- The torch-on membrane surfaces must have a positive slope or fall to effectively drain the water.

4.5 PROTECTIVE SCREED

Provide a protective layer, either a cement-sand screed, immediately after application of Sika® Bituseal T-130 SG and ponding test to protect from against mechanical / impact damages.

4.6 NOTES

- Ponding test can be carried out after a minimum of 24 hours following application.
- Insulation: The insulation boards are fixed over the top of the membrane and overlaid with pavers or ballast, commonly called an inverted roof. When insulation is incorporated in the roof structure design, the Designer should ensure that the dew point is to the outside of the membrane system.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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